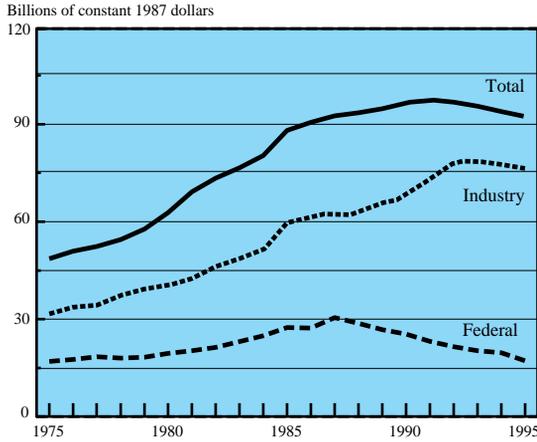


Figure 13. Industrial R&D performance, by source of funds and character of work



NOTES: Data are preliminary for 1994 and estimated for 1995. As a result of a new sample design for the underlying Survey of Industrial Research and Development, statistics for 1988-92 were revised and first reported in National Patterns of R&D Resources: 1994.

SOURCES: National Science Foundation (NSF), Division of Science Resources Studies (SRS). Data were derived from NSF/SRS, Research and Development in Industry 1993; NSF/SRS, Academic Science/Engineering: R&D Expenditures, Fiscal Year 1994; NSF/SRS, Federal Funds for Research and Development: Fiscal Years 1993, 1994, and 1995; and an independent survey conducted by the Industrial Research Institute.

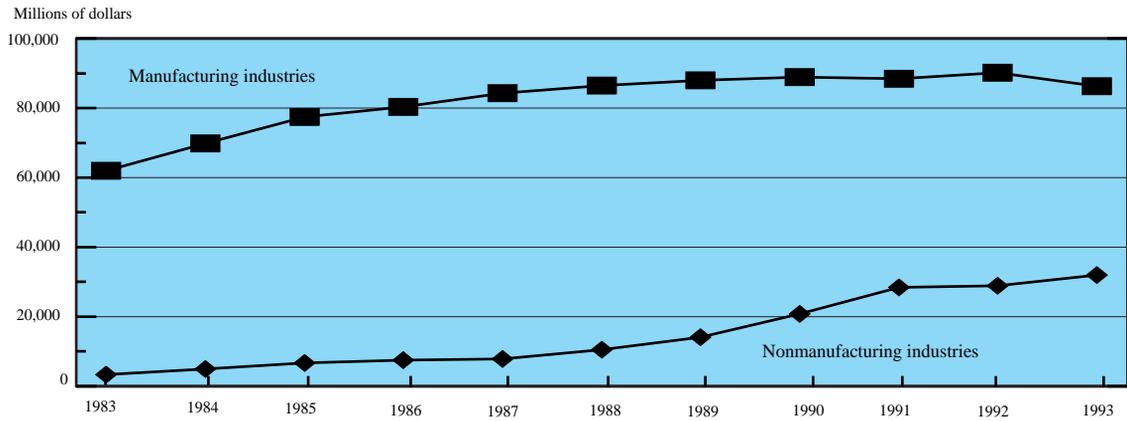
Source of funds
(Millions of current dollars)

	1970	1980	1990	1992	1993	1994 (est.)	1995 (est.)
Total	18,067	44,505	109,727	119,110	118,334	119,700	121,400
Industry	10,288	30,476	81,602	94,388	95,521	97,400	99,300
Federal	7,779	14,029	28,125	24,722	22,813	22,300	22,100

Character of work
(Millions of dollars)

Year	Total	Basic research	Applied research	Development
1985	84,239	2,862	18,255	63,122
1986	87,823	4,047	19,760	64,016
1987	92,155	4,323	19,813	68,019
1988	97,015	4,500	20,748	71,767
1989	102,055	5,216	22,691	74,148
1990	109,727	5,128	24,785	79,814
1991	116,952	7,837	27,446	81,669
1992	119,110	7,075	26,605	85,430
1993	118,334	7,926	24,877	85,531
1994 (est.)	119,700	7,200	26,300	86,200
1995 (est.)	121,400	7,150	26,650	87,600

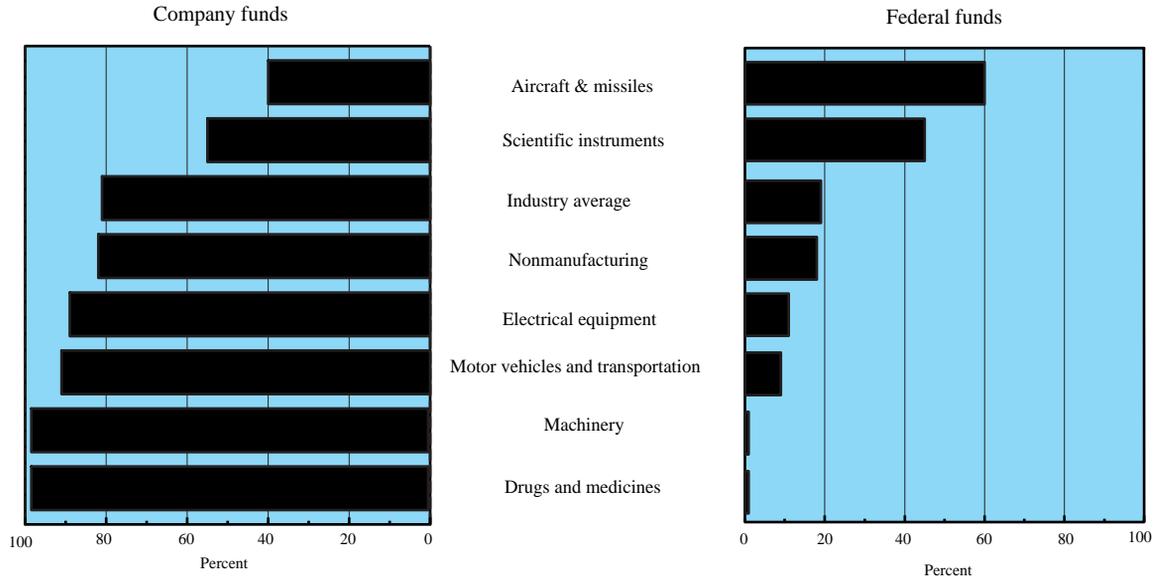
Figure 14. Industrial R&D performance, by sector



(Millions of current dollars)

Sector	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Manufacturing industries	61,931	69,895	77,525	80,377	84,311	86,502	88,024	88,934	88,506	90,167	87,014
Nonmanufacturing industries	3,337	4,905	6,714	7,446	7,844	10,513	14,031	20,793	28,446	28,933	31,320

Figure 15. Share of industrial R&D funding, by source and industry: 1993



SOURCE: National Science Foundation, Division of Science Resources Studies, Survey of Industrial Research and Development: 1993, NSF 96-304 (Arlington, VA: NSF, 1996).